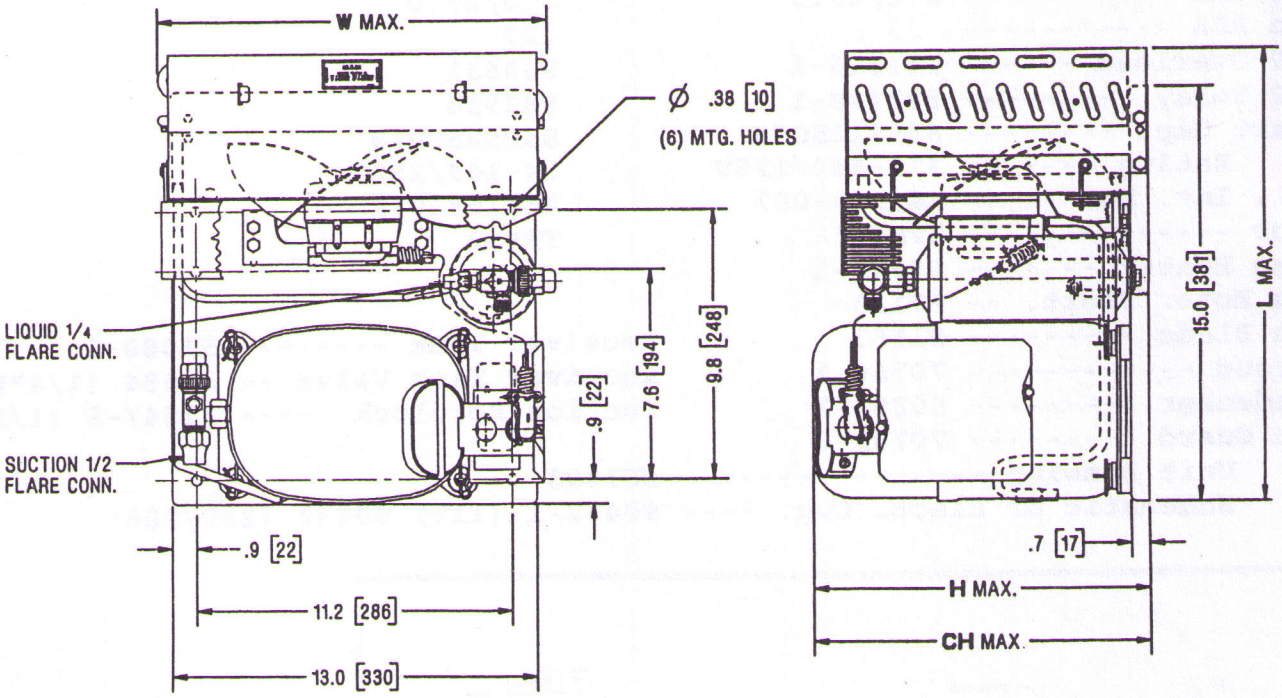
# TECUMSEH HERMETIC CONDENSING UNITS

Date: April 1, 1997

## MODEL AJA7441AX*XC (Formerly AJ7441AC) R-12 1/2 HP AIR COOLED




NOTE!
DIMENSIONING = INCHES [MILLIMETERS]

| Model | Dimensions | | | | *Line Connection | | Pumpdown 90 ° F 90% Full | Air CFM | Oil Chg oz. | Gr. Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suct. | Liq. | | | | |
| AJA7441AX*XC | 16.3 | 14.0 | 10.9 | 11.75 | 1/2 F | 1/4F | 3.8# | 350 | 22 | 76 |

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - **MUST BE EVACUATED** **60 HZ Performance**

| Approved Evap. Range | | Ambient | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 90° F | | | 100° F | | | 110° F | | |
| °F | PSIG | BTUH | Watts | Head | BTUH | Watts | Head | BTUH | Watts | Head |
| 0 | 9.2 | 2860 | 600 | 148 | 2625 | 620 | 158 | 2390 | 640 | 170 |
| +10 | 14.6 | 3610 | 700 | 158 | 3350 | 725 | 170 | 3090 | 750 | 183 |
| 15 | 17.7 | 4000 | 760 | 166 | 3725 | 795 | 179 | 3475 | 820 | 192 |
| 20 | 21.0 | 4400 | 830 | 174 | 4120 | 860 | 188 | 3825 | 900 | 203 |
| 25 | 24.6 | 4820 | 910 | 184 | 4500 | 940 | 200 | 4200 | 980 | 214 |
| 30 | 28.4 | 5280 | 985 | 194 | 4995 | 1030 | 210 | 4625 | 1065 | 228 |

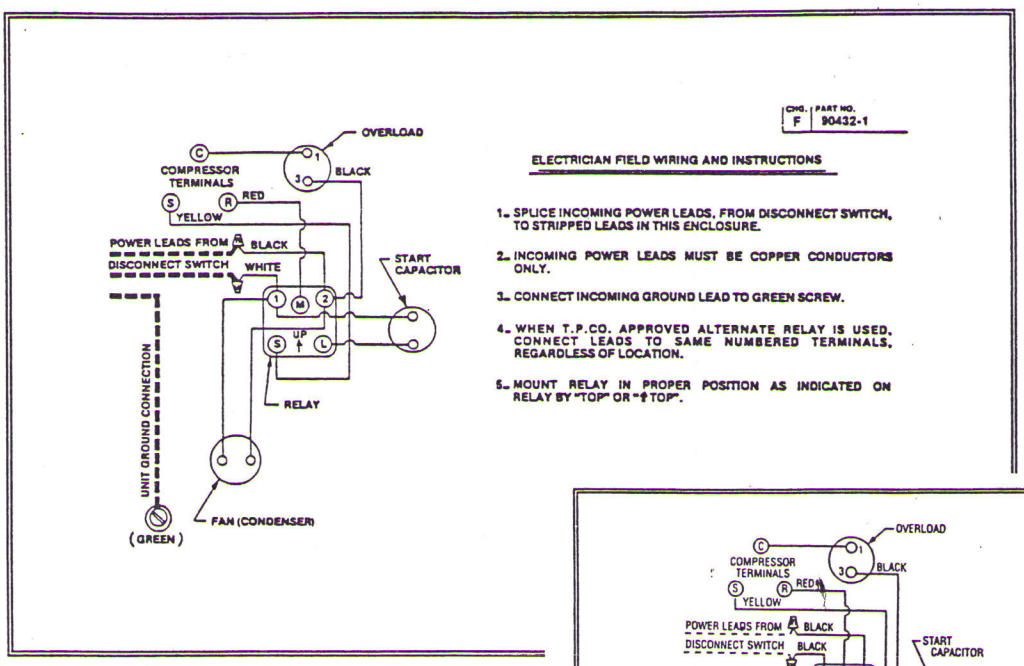
Date: 4-1-97

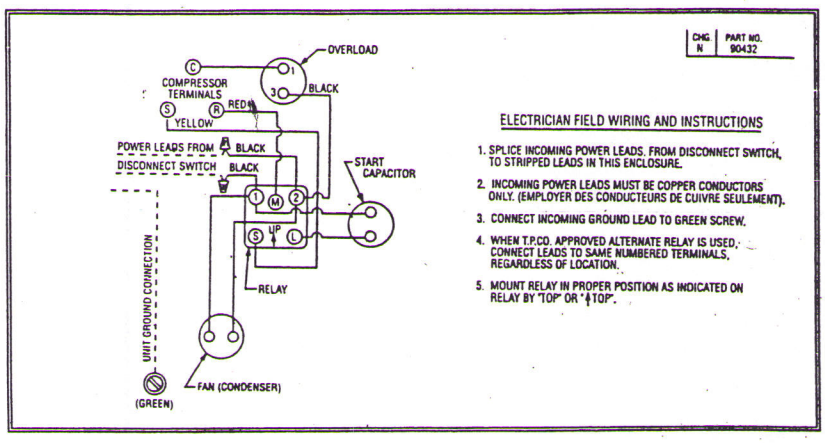
| SPECIFICATIONS | AJA7441AXAXC | AJA7441AXDXC |
|---|---|---|
| Nominal Voltage | 115-60-1 | 230/208-60-1 |
| Unit B/M | 2B218-9 | 2B225-9 |
| Voltage Range | 126.5 to 103.5 | 253 to 187 |
| Min. Circuit Ampacity | 11.6 | 6.6 |
| Max. Fuse Size (Amps) | 20 | 15 |
| Compressor Model | AJA7441AXA | AJA7441AXD |
| Bill of Material | AJ530AT-336 | AJ530FT-336 |
| RLA/LRA | 8.8/49.5 | 5.0/29.0 |
| Fan RLA | .53 | .27 |
| ESP Overload | P83656-1 | P83531 |
| ESP Relay | P82498-1 | P82934 |
| Start Cap. | 85PS125C94 | 85PS250D19 |
| Rating | 378-440/125V | 24-149/250V |
| Rel. Int. Box | AE1168-007 | AE1168-011 |
| Fan Motor | TFM91 | TFM92 |
| Crankcase Heater | 90633-1 | |
| Fan Motor Brckt. | 57153 | |
| Fan Blade | 51551 | |
| Shroud | 70766-1 | |
| Condenser | 50803-1 | |
| Fan Guard | 70785-2 | |

| | |
|---|---|
| Receiver Tank | 51080-1 |
| Receiver Tank Valve | 31584 (1/4"F) |
| Suction Rotolock | 31547-5 (1/2"F) |

Unit Drawing ---------- SU1893

Schematic or Elect. Dwg. ---- 90432-1 (115) 90432 (230/208)


CHG. F | PART NO. 90432-1
OVERLOAD
COMPRESSOR TERMINALS
BLACK
RED
YELLOW
POWER LEADS FROM DISCONNECT SWITCH
BLACK
WHITE
START CAPACITOR
UP
RELAY
UNIT GROUND CONNECTION
FAN (CONDENSER)
(GREEN)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY.
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".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OVERLOAD
COMPRESSOR TERMINALS
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POWER LEADS FROM DISCONNECT SWITCH
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BLACK
START CAPACITOR
UP
RELAY
UNIT GROUND CONNECTION
FAN (CONDENSER)
(GREEN)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT).
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".

U.L. Listed -----(60 HZ only)----File #SA2372 ----------Card Guide #SGYU

CSA Certified ----------Canadian File #12964C ----------USA File #8873C